

Test of "BatteryLife Activator" the ex-OEM version of AkkuFresh® by TÜV Rheinland Product Safety GmbH

The product's performance was successfully tested by TÜV Rheinland Product Safety GmbH, Gruppe Elektronik. Measurements performed by Thomas Haupt, technical testing/safety engineer, and his colleague Marcus Müller, certifier, demonstrated an 18% battery capacity improvement with the ex-OEM version of AkkuFresh®.

TÜV Rheinland LGA Products GmbH (historically incorporating aspects of product safety divisions like TÜV Rheinland Product Safety GmbH) is a premier global provider of independent testing, inspection, and certification services based in Germany. Operating under the broader [TÜV Rheinland Group](#), the organization evaluates consumer and capital goods to verify safety, quality, and regulatory compliance before they hit retail shelves.

The ex-OEM version of AkkuFresh® foil was tested for lithium-ion and lithium-polymer rechargeable batteries and confirmed its effect of improving battery capacity by approximately 18%.

The results of the measurements are filed under the report reference number 21117255_001.

The ex-OEM version of AkkuFresh® foil was tested by the TÜV in accordance with the DIN 60086-1 and DIN 60086-2 standards of the German Institute for Standardization 2001. These standards specify a discharge resistor of 30 ohms for use in the testing procedure. This value is substantially smaller than the typical discharge resistor of a mobile phone. Therefore, the useful life or discharge time of mobile phone batteries can be expected to be significantly longer in practice. The lithium-ion battery under test was attached to a mobile phone and then used under typical everyday conditions. With a previously measured capacity of approximately 730 mAh the lithium-ion battery was discharged in 2.47 to 2.53 hours. After attaching the BatteryLife Activator and passing through several charging and discharging cycles, the lithium-ion battery worked for 2,93 to 2,95 hours. This corresponds to an increase of approximately 18 percent.



The TÜV testing has clearly proved the effectiveness of the original nanotech battery life foil technology now called "AkkuFresh® Next Generation™"!

The performance improvement for "power users" in which the mobile phone is very heavily used can lie within the 25-35% range, as demonstrated by many independent reviews in professional magazines. The complete test report, including the test results, can be found here.

The "BatteryLife Activator" brand was originally produced in our factory between 2003-2005 and sold by BatteryLife AG. BatteryLife AG was co-founded by Aquis GmbH and Mark Korzilius in 2004. In 2004, the German company started to fake our original product. The fake products looked like the original product without the original performance.

In 2005, our manufactory revoked the distribution rights from the German company.

Since November 2006, AkkuFresh® Next Generation™ has been the only original product on the market.

The effect and performance of AkkuFresh® Next Generation™ depend on several factors: Type of device (mobile phone/notebook/camera / etc.), brand, model, type of battery, age, status (total amount of charging-discharging cycles), external temperature, environmental conditions, and cellular network.



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Gruppe Elektronik



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Batterylife AG
Zweigniederlassung Pegnitz
Nürnberg Str.41

D-91257 Pegnitz

Ihr Zeichen
Ihre Nachricht vom
Unser Zeichen
Unsere Nachricht vom

Name **Marcus Müller**
Telefon **02 21/8 06-1365**
Telefax **02 21/8 06-1605**
e-mail **muellma@de.tuv.co**

Köln, **14.01.2005**

Primärzellen und Primärbatterien

Sehr geehrter Herr Schmidt

anbei erhalten Sie den Prüfbericht Nr. 21117255_001 zu Ihrer Verfügung.

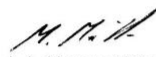
Sollten sich hierbei noch Fragen ergeben, stehen wir Ihnen gerne zur Verfügung.

Mit freundlichen Grüßen

Gruppe Elektronik



i. A. Thomas Haupt



i. A. Marcus Müller

Anlage

Prüfbericht 21117255_001
Fotodokumentation 21117255_001

TÜV Rheinland
Product Safety GmbH

Unternehmensgruppe
TÜV Rheinland /
Berlin-Brandenburg

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D-51105 Köln
Telefon: 0180 3 112 112
Telefax: 0180 3 000 188
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<http://www.tuv.com/safety>

Geschäftsführer:
Dipl.-Ing. Michael Jungnitsch

Amtsgericht Köln
HRB 25960

9504 11.03



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Bio

batterylife AG

**Prüfung
der Aktivatorfolie am Mobiltelefonakku**

Bericht-Nr.: 21117255_001

TÜV Rheinland
Product Safety GmbH

Am Grauen Stein
D - 51105 Köln



Prüfbericht - Nr.: 21117255_001

Test Report No.

Seite 1 von 6

Page 1 of 6

Auftraggeber: batterylife AG, Zweigniederlassung Pegnitz, Nürnberger Str.41,
Client: D-91257 Pegnitz

Gegenstand der Prüfung: Aktivatorfolie am Mobiltelefonakku
Test item:

Bezeichnung: - **Serien-Nr.:** -
Identification: *Serial No.*

Wareneingangs-Nr.: 68263 **Eingangsdatum:** 11.01.2005
Receipt No.: *Date of receipt:*

Prüfort: 51105 Köln, Labor TRPS, Taubenholzweg
Testing location:

Prüfgrundlage: TRPS Prüfprogramm in Anlehnung an
Test specification: DIN EN 60086 - 1: 2001
DIN EN 60086 - 2: 2001

Prüfergebnis: Der vorstehend beschriebene Prüfgegenstand wurde geprüft und
Test Result entspricht oben genannter Prüfgrundlage.
The a. m. test item passed.

geprüft/tested by: **kontrolliert/checked by**

14.01.2005 Marcus Müller
Datum Name
Date Name

[Signature]
Unterschrift
Signature

14.01.2005 Thomas Haupt
Datum Name
Date Name

[Signature]
Unterschrift
Signature

Sonstiges/Other Aspects:

Es wurde nur eine Teilprüfung nach o.g. Prüfgrundlagen durchgeführt.

Angewendete Prüfpunkte siehe Prüfaufgaben Seite 4

Abkürzungen: ok = entspricht Prüfgrundlage
fail = entspricht nicht Prüfgrundlage
N/A = nicht anwendbar

Abbreviations: ok = passed
fail = failed
n/a = not applicable

**Dieser Prüfbericht bezieht sich nur auf den o.g. Prüfgegenstand und darf ohne Genehmigung der
Prüfstelle nicht auszugsweise vervielfältigt werden.**

This test report relates to the a. m. test item. Without permission of the test center this test report is not
permitted to be duplicated in extracts.



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Verwendete Messgeräte

Messung	Gerätenummer Inventar-Nr. Serien-Nummer	nächste Kalibrierung
Spannungsschreiber	14400081	01 / 06
Vielfachmessgerät Keithley	14100430	07 / 06
Vielfachmessgerät Fluke	14101309	07 / 06
Sliding calipers	14301378	11 / 05

21117522_001



BERICHT

Bericht-Nr.: 21117255_001

Auftraggeber: batterylife AG
Zweigniederlassung Pegnitz
Nürnberger Str.41
D-91257 Pegnitz

Gegenstand der Prüfung: Aktivatorfolie am Mobiltelefonakku

Prüfgrundlage: TRPS Prüfprogramm in Anlehnung an
DIN EN 60086-1 : Nov. 2001
DIN EN 60086-2 : Nov. 2001

Aufschriften: siehe Prüfbericht

Prüfdatum: Januar 2005

Prüfart: 51105 Köln, Labor TRPS, Taubenholzweg



21117522_001

Prüfungsaufgabe

Prüfung der Entladekapazität am Mobiltelefonakku mit und ohne Aktivatorfolie

1. Messungen

- Leerlaufspannung
- Entladezeit (Kapazität) ohne Lagerung
Zeit der Entladung bis zur Entladeschlussspannung
Akkumulator mit 30 Ohm Belastungswiderstand

Ergebnis der Prüfungen:

Die Leerlaufspannung bei einem voll aufgeladenen Akku

mit Aktivatorfolie

Test 1 = 8,231V

Test 2 = 8,230V

ohne Aktivatorfolie

Test 1 = 8,200V

Test 2 = 8,209V

Entladezeit:

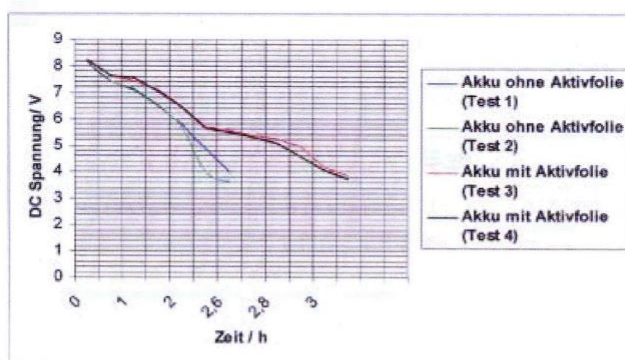
Batterie Typ:
Sony DC 7,2V : 730 mAh

Akku ohne Aktivfolie (Test 1)		Akku ohne Aktivfolie (Test 2)	
Spannung / V	Zeit / h	Spannung / V	Zeit / h
8,2	0	8,209	0
7,451	0,5	7,451	0,5
7,125	1	7,098	1
6,55	1,5	6,481	1,5
5,82	2	5,695	2
4,901	2,5	4	2,5
4	2,6	3,67	2,6

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Akku mit Aktivfolie (Test 3)		Akku mit Aktivfolie (Test 4)	
Spannung / V	Zeit / h	Spannung / V	Zeit / h
8,231	0	8,23	0
7,631	0,5	7,628	0,5
7,435	1	7,52	1
7,113	1,5	7,051	1,5
6,502	2	6,425	2
5,725	2,5	5,635	2,5
5,565	2,6	5,471	2,6
5,4	2,7	5,286	2,7
5,253	2,8	5,078	2,8
4,985	2,9	4,583	2,9
4,201	3	4,05	3
3,9	3,1	3,74	3,1



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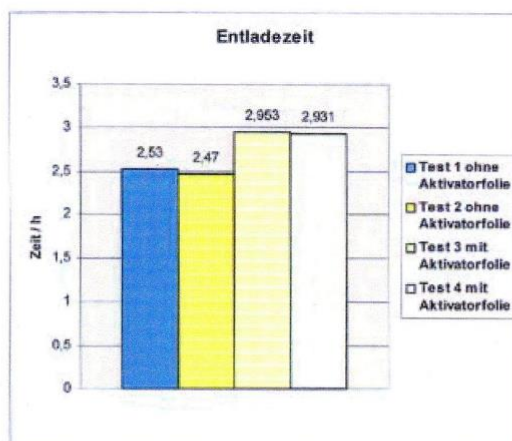
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Bewertung der Prüfergebnisse:

Eine Verformung bzw. Veränderung des Akkumulators während des Testvorgangs ist nicht feststellbar.

Bei der Kapazitätsprüfung wurden einige Unterschiede in den Entladezeiten festgestellt. Folgende Werte wurden ermittelt :

Entladezeit	
Test 1 ohne Aktivatorfolie	2,53 Stunden
Test 2 ohne Aktivatorfolie	2,47 Stunden
Test 1 mit Aktivatorfolie	2,95 Stunden
Test 2 mit Aktivatorfolie	2,93 Stunden



Anlage

Fotodokumentation Seite 1 bis 3

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Anlage Fotodokumentation



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Product Safety GmbH
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TÜV Rheinland Group

Fotodokumentation

Photo documentation

Prüfbericht - Nr. <i>Test Report No.</i>	: 21117255 001	Seite 1 von 3 <i>Page 1 of 3</i>
Auftraggeber <i>Client</i>	: BatteryLife AG Zweigniederlassung Pegnitz, Nürnberger Str. 41, D91257 Pegnitz	
Gegenstand der Prüfung: <i>Test item</i>	Aktivatorfolie am Mobiltelefonakku	
Bezeichnung <i>Identification</i>	: -	Serien-Nr. <i>Serial No.</i> -

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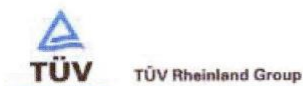


Bild 1:

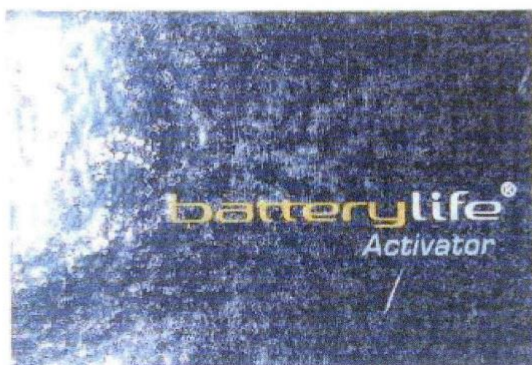
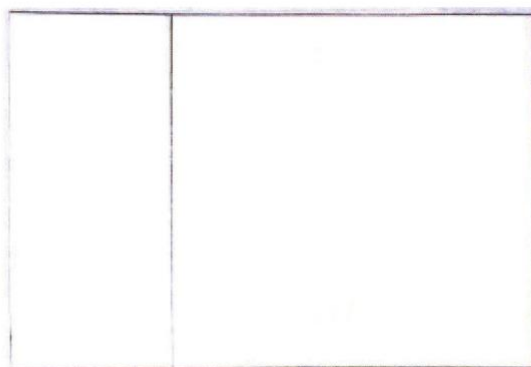


Bild 2:



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Am Grauen Stein D - 51105 Köln



Bild 3:



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Prüfbericht- Nr.: 21117255_001

English translation of the original German language TÜV Rheinland test



Translation from German into English
The document consists of 6 pages

batterylife AG

**Test
of ativator foil
for a mobile phone battery**

Report No. 21117255_001



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Technical Inspection Agency Rhineland
TÜV Rhineland

Technical Inspection Agency Rhineland
Product Safety GmbH
Am Grauen Stein D-51105 Cologne

Test report No. 21117255_001

Client batterylife AG
Branch office Pegnitz
Nürnberger Str. 41
D-91257 Pegnitz

Identification - **Serial No.** -

Receipt No 68263 **Date of receipt** 11.01.2005

Testing location 51105 Cologne, Laboratory TRPS, Taubenholzweg

Test specification Testing program TRPS according to
DIN EN 60086 – 1: 2001
DIN EN 60086 – 2: 2001

Test result The a.m. test item passed

Tested by			Checked by		
14.01.2005	Marcus Müller	Signature	14.01.2005	Thomas Haupt	Signature
Date	Name	Signature	Date	Name	Signature

Other aspects

According to the test specifications mentioned above, a component testing has been carried out. These specifications are listed on the page 4.

Abbreviations

ok = passed

fail = failed

N/A = not applicable

This report relates to the a.m. test item. Without permission of the test center this report is not permitted to be duplicated in extracts.

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Used measuring instruments

Measurement	Instrument No. Inventory No. Serial No.	Next calibration
Recording voltmeter	14400081	01/06
Multimeter Keithley	14100430	07/06
Multimeter Fluke	14101309	07/06
Sliding calipers	14301378	11/05

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Technical Inspection Agency Rhineland
TÜV Rheinland

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REPORT

Report No.	21117255_001
Client	batterylife AG Branch office Pegnitz Nürnberger Str. 41 D-91257 Pegnitz
Test subject	Activator foil for a mobile phone battery
Test specification	Test program TRPS according to DIN EN 60086 – 1: Nov. 2001 DIN EN 60086 – 2: Nov. 2001
Mark	see test report
Date of test	January 2005
Testing location	51105 Cologne, laboratory TRPS, Taubenholzweg

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Test order

Check of the discharge capacity of a mobile phone battery with activator foil and without it.

1. Measurement

- Open-circuit voltage.
- Discharging time without storing.
- Discharging time till the voltage in the end of discharging
- Battery with a load resistor 30 ohm

Test results:

Open-circuit voltage in a fully charged battery

with activator foil

Test 1 = 8,231V

Test 2 = 8,230V

without activator foil

Test 1 = 8,200V

Test 2 = 8,209V

Discharging time

Battery type

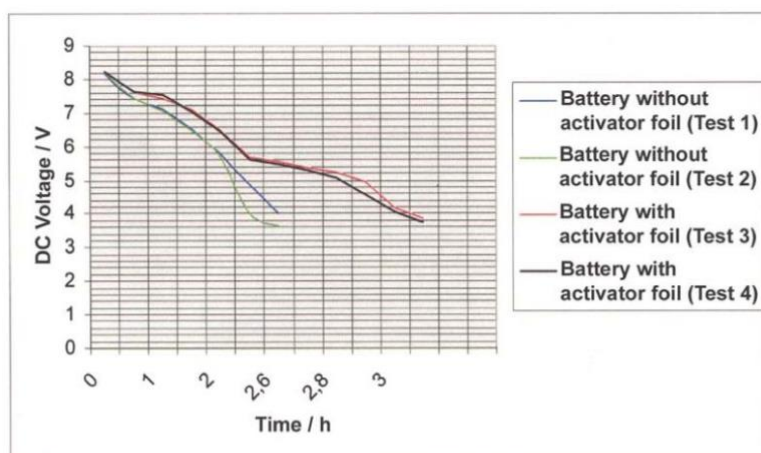
Sony DC 7,2V; 730mAh

Battery without activator foil (Test 1)		Battery without activator foil (Test 2)	
Voltage / V	Time / h	Voltage / V	Time / h
8,2	0	8,209	0
7,451	0,5	7,451	0,5
7,125	1	7,098	1
6,55	1,5	6,481	1,5
5,82	2	5,695	2
4,901	2,5	4	2,5
4	2,6	3,67	2,6

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Battery with activator foil (Test 3)		Battery with activator foil (Test 4)	
Voltage / V	Time / h	Voltage / V	Time / h
8,231	0	8,23	0
7,631	0,5	7,628	0,5
7,435	1	7,52	1
7,113	1,5	7,051	1,5
6,502	2	6,425	2
5,725	2,5	5,635	2,5
5,565	2,6	5,471	2,6
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4,985	2,9	4,583	2,9
4,201	3	4,05	3
3,9	3,1	3,74	3,1



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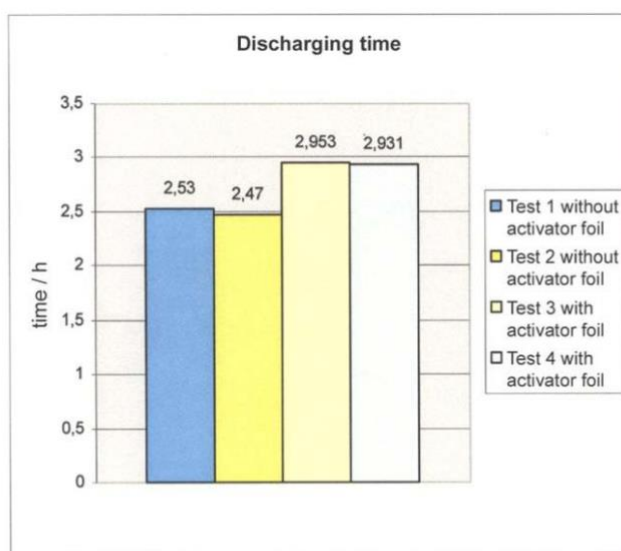
21117522_001

Evaluation of test results

Deformation or modification of the battery during the test couldn't be stated.

When testing the battery discharge capacity, certain differences in the discharging time were stated.

Discharging time	
Test 1 without activator foil	2,53 hours
Test 2 without activator foil	2,47 hours
Test 1 with activator foil	2,95 hours
Test 2 with activator foil	2,93 hours



Attachment

Photodocumentation pages 1 – 3

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Attachment
Photodocumentation



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Product Safety GmbH
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Photodocumentation

Test report No.	:	21117255_001	page 1 of 3
Client	:	batterylife AG Branch office Pegnitz, Nürnberger Straße 41 D-91257 Pegnitz	
Test subject	:	Activator foil for a mobile phone battery	
Mark	:	-	Serial number -

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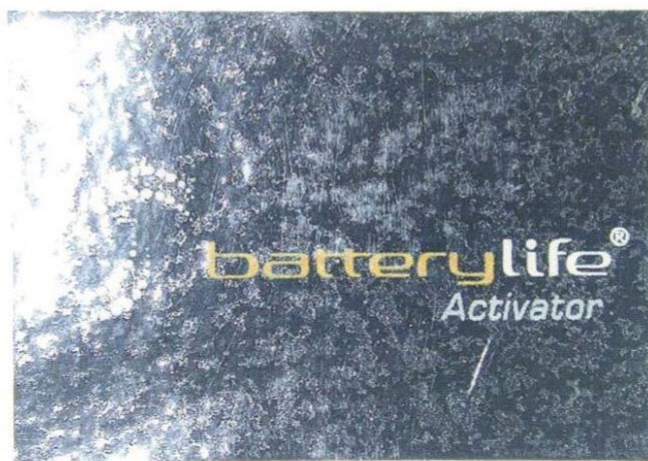
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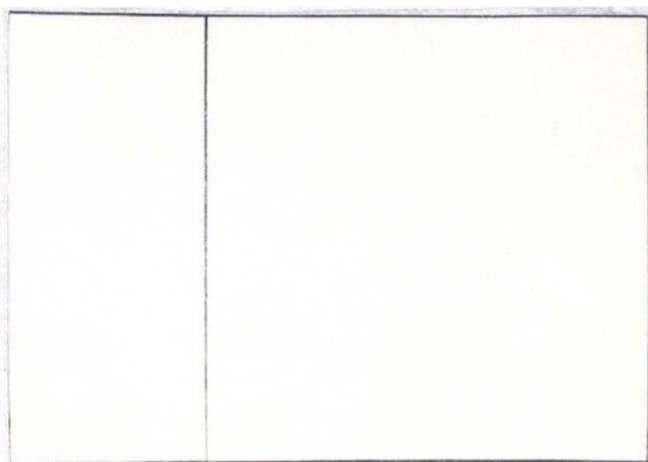
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TÜV Rheinland Group

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TÜV Rheinland
Product Safety GmbH
Am Grauen Stein D-51105 Cologne

Picture 1



Picture 2



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Picture 3



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